

**AMENDMENTS TO THE CLAIMS**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

Claims 1-4. (Canceled)

Claim 5. (Currently Amended):      An isolated nucleic acid encoding a polypeptide having at least [[80%]] 95% amino acid sequence identity with a polypeptide selected from the group consisting of:

- (a) a human or mouse CatSper3 protein;
- (b) at least a transmembrane domain of a human or mouse CatSper3 protein;
- (c) at least an extracellular loop of a human or mouse CatSper3 protein; and
- (d) at least a pore region of a human or mouse CatSper3 protein.

Claims 6-74. (Canceled)